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In re Application of: )  
)  
**Vrazel et al.** )  
)  
Serial No.: **10/032,586** ) Art Unit: **2874**  
)  
Filed: **December 21, 2001** )  
)  
For: **Increasing Data Throughput In** )  
**Optical Fiber Transmission** )  
**Systems** )

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
Washington, DC 20231

Sir:

The citation of information on the attached Form PTO-1449, "List of Art Cited by Applicant" is made pursuant to 37 C.F.R. §§ 1.56, 1.97, and 1.98. A copy of each cited item is enclosed.

The citation of this information does not constitute an admission of priority or that any cited item is available as a reference, or a waiver of any right the applicant may have under applicable statutes, Rules of Practice in patent cases, or otherwise.

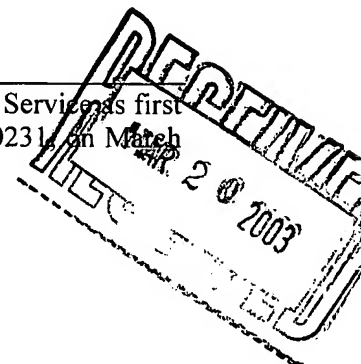
Respectfully submitted,

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K&S Docket: 07982.105010 US  
3138008 v1

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A. Shane Nichols, Reg. No. 43,836





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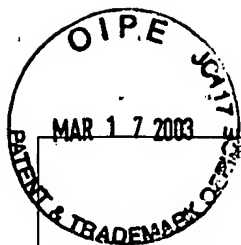
ATTY. DOCKET NO. 07982.105010	SERIAL NO. 10/032,586	FILING DATE December 21, 2001
APPLICANT Vrazel et al.		GROUP 2874

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	3,977,795	8/31/1976	Buschmann, Hans-Theo			2/11/1974
	AB	4,287,756	9/8/1981	Gallagher, John J.			10/24/1979
	AC	4,349,914	9/14/1982	Evans, Randall G.			4/1/1980
	AD	4,363,127	12/7/1982	Evans et al.			1/12/1981
	AE	4,387,461	6/7/1983	Evans, Randall G.			3/11/1981
	AF	4,393,499	7/12/1983	Evans, Randall G.			3/11/1981
	AG	4,830,493	5/16/1989	Giebel, Robert			10/29/1987
	AH	4,847,521	7/11/1989	Huignard et al.			12/22/1987
	AI	5,007,106	4/9/1991	Kahn et al.			11/8/1989
	AJ	5,067,126	11/19/1991	Moore, Thomas E.			8/4/1989
	AK	5,128,790	7/7/1992	Heidemann et al.			9/12/1991
	AL	5,283,679	2/1/1994	Wedding, Berthold			12/10/1991
	AM	5,291,031	3/1/1994	MacDonald et al.			4/6/1992
	AN	5,371,625	12/6/1994	Wedding et al.			1/29/1993
	AO	5,376,786	12/27/1994	MacDonald, R. Ian			4/22/1993
	AP	5,413,047	5/9/1995	Evans et al.			10/15/1993
	AQ	5,436,752	7/25/1995	Wedding, Berthold			10/28/1993
	AR	5,436,756	7/25/1995	Knox et al.			9/30/1992

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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



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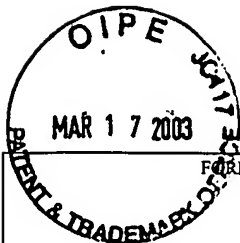
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	BA	5,528,710	6/18/1996	Burton et al.			5/5/1993
	BB	5,574,743	11/12/1996	van der Poel et al.			3/21/1995
	BC	5,612,653	3/18/1997	Dodds et al.			6/7/1995
	BD	5,670,871	9/23/1997	Man et al.			7/16/1996
	BE	5,721,315	2/24/1998	Evans et al.			8/16/1995
	BF	5,723,176	3/3/1998	Keyworth et al.			7/8/1996
	BG	5,754,681	5/19/1998	Watanabe et al.			6/22/1995
	BH	5,783,630	7/21/1998	Evans et al.			7/7/1995
	BI	5,784,032	7/21/1998	Johnston et al.			11/1/1995
	BJ	5,812,578	9/22/1998	Schemmann et al.			6/16/1995
	BK	5,825,257	10/20/1998	Klymyshyn et al.			6/17/1997
	BL	5,839,105	11/17/1998	Ostendorf et al.			11/29/1996
	BM	5,841,841	11/24/1998	Dodds et al.			3/14/1996
	BN	5,848,139	12/8/1998	Grover, Wayne D.			11/19/1996
	BO	5,850,505	12/15/1998	Grover et al.			11/1/1995
	BP	5,852,389	12/22/1998	Kumar et al.			4/17/1997
	BQ	5,861,966	1/19/1999	Ortel, William G.			12/27/1995
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	CA	5,880,870	3/9/1999	Sieben et al.			10/28/1996
	CB	5,887,022	3/23/1999	Lee et al.			6/12/1996
	CC	5,889,759	3/30/1999	McGibney, Grant			8/13/1996
	CD	5,912,749	6/15/1999	Harstead et al.			2/11/1997
	CE	5,942,576	8/24/1999	Evans et al.			11/3/1997
	CF	5,943,457	8/24/1999	Hayward et al.			3/24/1998
	CG	5,949,926	9/7/1999	Davies, Robert J.			12/15/1997
	CH	5,959,032	9/28/1999	Evans et al.			7/8/1996
	CI	5,959,750	9/28/1999	Eskildsen et al.			6/6/1996
	CJ	5,965,667	10/12/1999	Evans et al.			11/3/1997
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	CL	5,985,999	11/16/1999	Dominguez et al.			4/23/1997
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	CN	6,009,424	12/28/1999	Lepage et al.			9/3/1997
	CO	6,021,110	2/1/2000	McGibney, Grant			1/26/1999
	CP	6,028,658	2/22/2000	Hamada et al.			11/25/1998
	CQ	6,031,048	2/29/2000	Evans et al.			7/12/1996
	CR	6,031,866	2/29/2000	Oler et al.			5/30/1997

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Vrazel et al.GROUP  
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	DA	6,035,080	3/7/2000	Henry et al.			6/20/1997
	DB	6,041,299	3/21/2000	Schuster et al.			3/11/1998
	DC	6,093,496	7/25/2000	Dominguez et al.			5/12/1998
	DD	6,093,773	7/25/2000	Evans et al.			8/3/1999
	DE	6,108,474	8/22/2000	Eggleton et al.			12/11/1997
	DF	6,111,477	8/29/2000	Klymyshyn et al.			4/17/1997
	DG	6,118,563	9/12/2000	Boskovic et al.			9/18/1998
	DH	6,127,480	10/3/2000	Dominguez et al.			10/19/1999
	DI	6,140,416	10/31/2000	Evans et al.			8/3/1999
	DJ	6,140,972	10/31/2000	Johnston et al.			12/28/1998
	DK	6,141,127	10/31/2000	Boivin et al.			2/20/1998
	DL	6,163,638	12/19/2000	Eggleton et al.			10/29/1998
	DM	6,201,916 B1	3/13/2001	Eggleton et al.			3/15/1999
	DN	6,208,792 B1	3/27/2001	Hwang et al.			9/20/1999
	DO	6,214,914 B1	4/10/2001	Evans et al.			8/3/1999
	DP	6,219,633 B1	4/17/2001	Lepage, Yves			8/6/1999
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	DR	6,236,963 B1	5/22/2001	Naito et al.			3/16/1999

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	EA	6,259,836 B1	7/10/2001	Dodds, David E.			5/14/1998
	EB	6,259,847 B1	7/10/2001	Lenz et al.			4/7/1999
	EC	6,271,944 B1	8/7/2001	Schemmann et al.			6/30/1999
	ED	6,289,151 B1	9/11/2001	Kazarinov et al.			10/30/1998
	EE	6,341,023 B1	1/22/2002	Puc, Angrej B.			7/23/1999
	EF						

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NUMBER	DATE	COUNTRY	NAME	TRANSLATION YES NO.
	EG	WO 01/41346 A2	6/7/2001	PCT	Fishman et al.	
	EH					

**OTHER REFERENCES** *(Including Author, Title, Date, Pertinent Pages, Etc.)*

EI		Fürst et al.; <i>Performance Limits of Nonlinear RZ and NRZ Coded Transmission at 10 and 40 Gb/s on Different Fibers</i> ; pp. 302 - 304
EJ		Garrett, Ian; <i>Pulse-Position Modulation for Transmission Over Optical Fibers with Direct or Heterodyne Detection</i> ; IEEE Transactions on Communications; Vol. COM-31; No. 4; April 1983; pp. 518 - 527
EK		Idler et al.; <i>40 Gbit/s Quaternary Dispersion Supported Transmission Field Trial Over 86 km Standard Singlemode Fibre</i> ; 24 <sup>th</sup> European Conference on Optical Communication; September, 1998; pp. 145 - 147
EL		Ohtsuki et al.; <i>BER Performance of Turbo-Coded PPM CDMA Systems on Optical Fiber</i> ; Journal of Lightwave Technology; Vol. 18; No. 12; December, 2000; pp. 1776 - 1784
FA		Vorenkamp et al.; <i>A 1Gs/s, 10b Digital-to-Analog Converter</i> ; ISSCC94/Session 3/Analog Techniquet/Paper WP 3.3; pp. 52 - 53
FB		Walkin et al.; <i>A 10 Gb/s 4-ary ASK Lightwave System</i> ; ECOC; 1997; pp. 255 - 258
FC		Walklin et al.; <i>Multilevel Signaling for Extending the Dispersion-Limited Transmission in High-Speed, Fiber Optic Communication Systems</i> ; IEEE; 1996; pp. 233 - 236
FD		Walklin et al.; <i>Multilevel Signaling for Increasing the Reach of 10 Gb/s Lightwave Systems</i> ; IEEE Journal of Lightwave Technology; Vol. 17; No. 11; November, 1999; pp. 2235 - 2248
FE		Wedding et al.; <i>Multi-level Dispersion Supported Transmission at 20 Gbit/s Over 46 km Installed Standard Singlemode Fibre</i> ; 22 <sup>nd</sup> European Conference on Optical Communication; 1996; pp.91 - 94

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